JUNIOR LYCEUM ANNUAL EXAMINATIONS 2009
Directorate for Quality and Standards in Education
Educational Assessment Unit

FORM 3 (3ʳᵈ year)   **GRAPHICAL COMMUNICATION**   **TIME: 2 hours**

NAME : _____   **CLASS :** _____

Instructions

- Write your name and class on all sheets.
- Attempt **ALL** questions.
- All answers are to be drawn accurately, with instruments, unless otherwise stated.
- All construction lines **MUST** be left on each solution to show the method used.
- Drawing aids may be used.

Information

- All dimensions are in millimetres.
- Estimate any dimension not given.
- Marks will be awarded for accuracy, clarity and appropriateness of construction.

Question	1	2	3	4	5
Max. mark	36	15	15	16	18
Mark					

1. The figure below shows a pictorial view of a **BRACKET**.
   Draw, in **first angle orthographic projection**, the following views:

   (a) a front elevation from arrow '**A**'.   12 marks
   (b) a complete plan. (**including all hidden details**)   20 marks

   Note: (i) Show the scale used.   2 marks
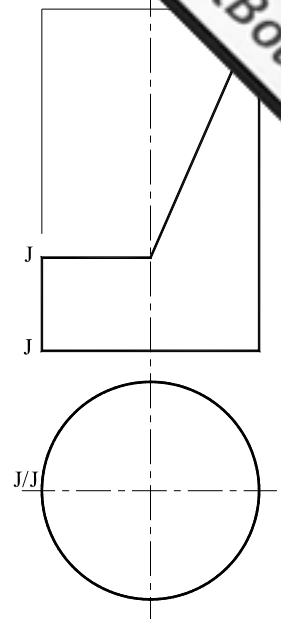   (ii) Draw the symbol of projection used.   2 marks

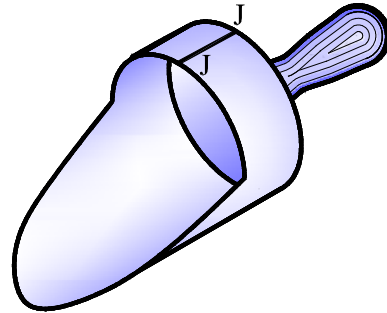   **Total 36 marks**
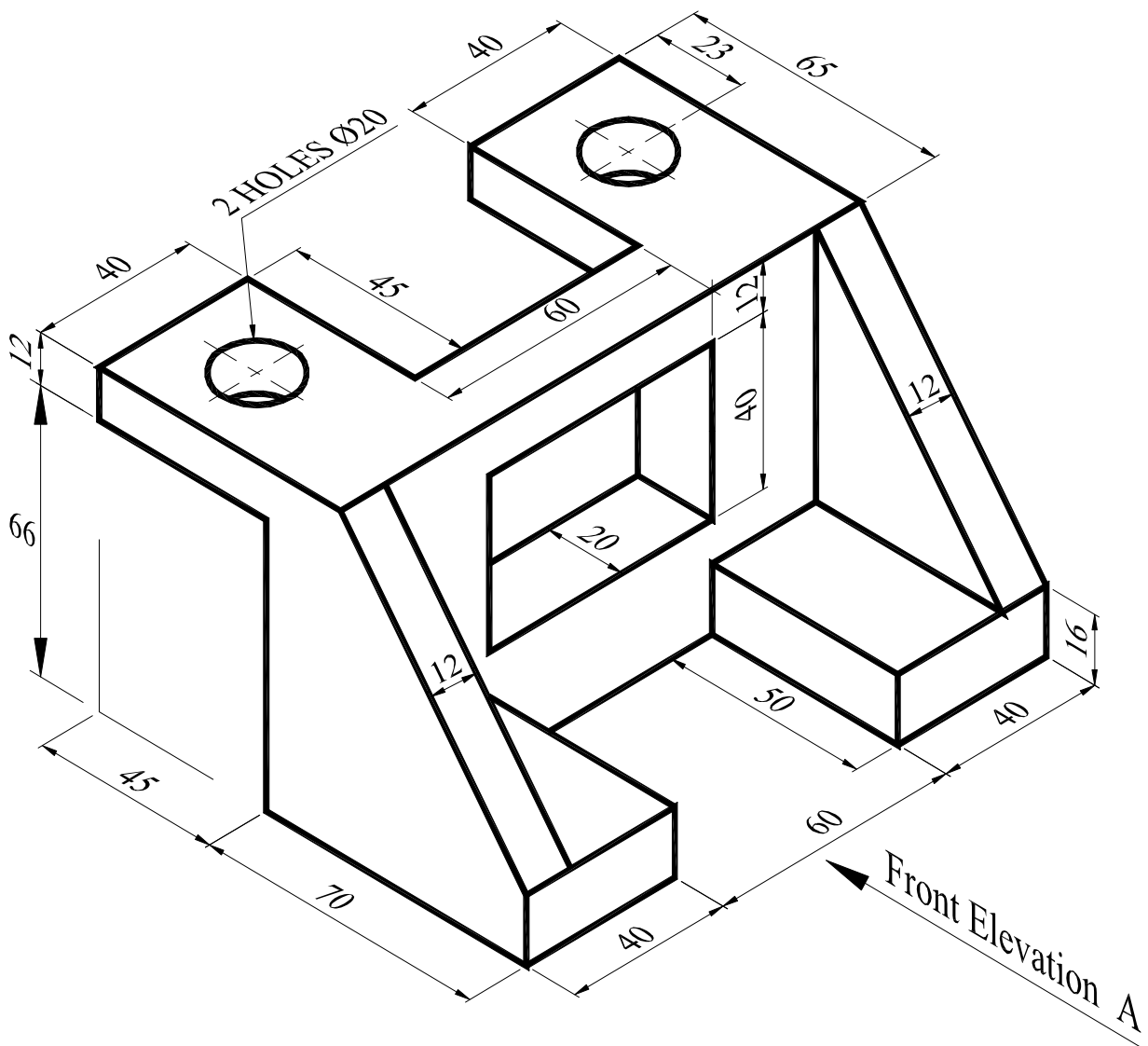
2.   The pictorial view, shown below, shows a sugar scoop
       made from thin sheet metal and a wooden handle.
       A front elevation and a plan of the cylindrical part of the
       scoop are also given.
       Construct a one piece development of the scoop assuming
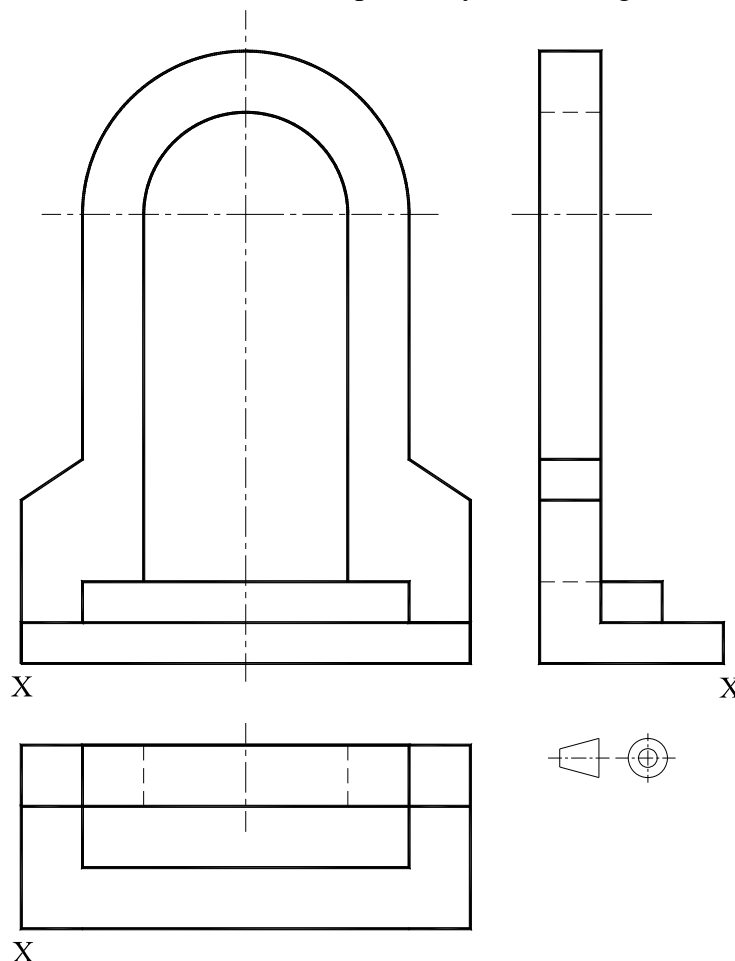   the joint to be along **JJ.**
       Show all construction lines.

**15 marks**

J

J

J

J

J/J

3.   Three orthographic views of a stepped arched doorway are given.
       Using the given start lines and taking the dimensions from the given views on
       the starter sheet, convert full size, the drawing to an **Isometric view.**
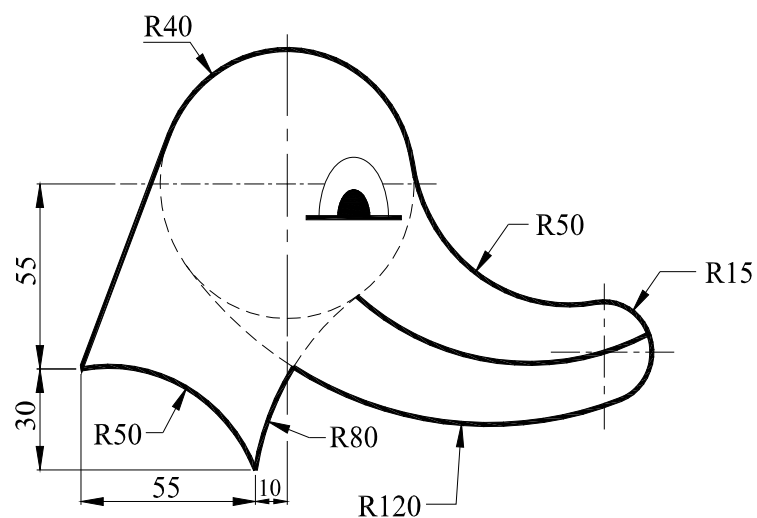   Position corner **X** to be the lowest point in your drawing.

15 marks

X   X

X

4. The flame of the logo of a candle factory consists of a part ellipse and t~~
    tangents as shown below.
    Using the given start line construct:
    (a) The elliptical part **A** – **B** having a major axis of 100mm and a minor axis
        of 80mm.
    (b) The two tangents at points **A** – **B** forming the straight part of the flame.
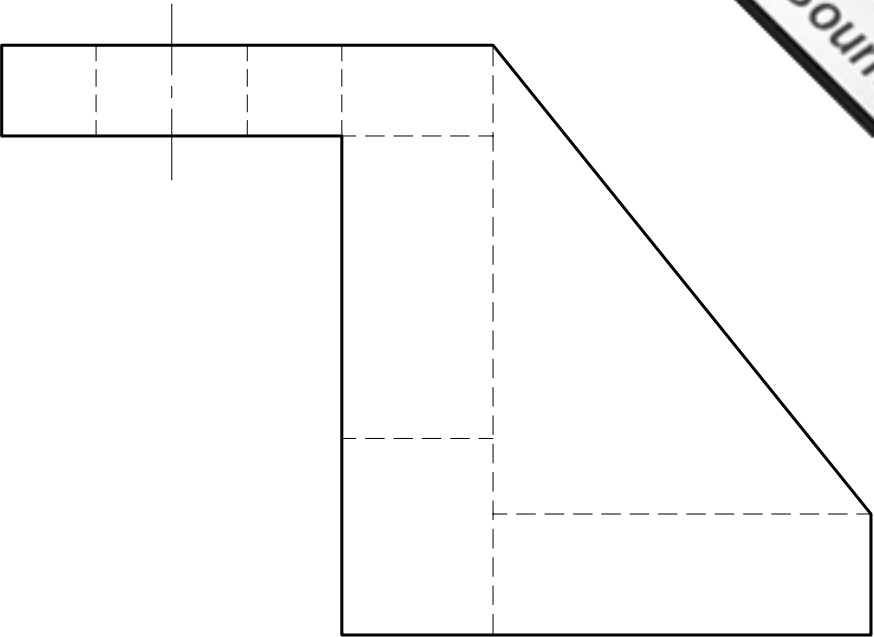
    16 marks

A   B
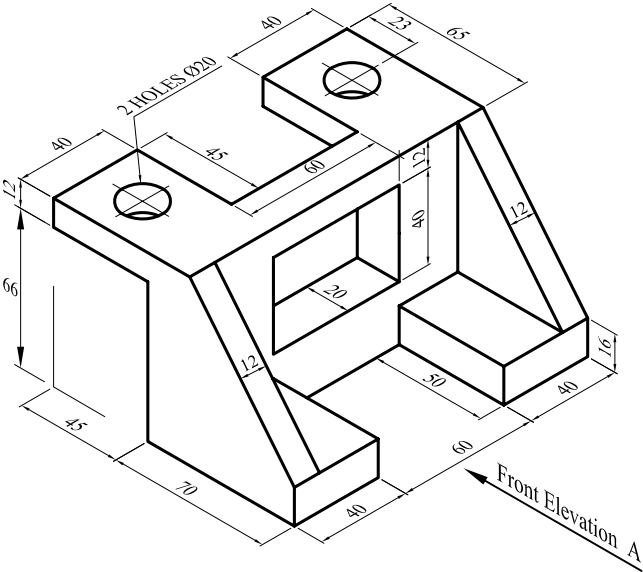
A   B
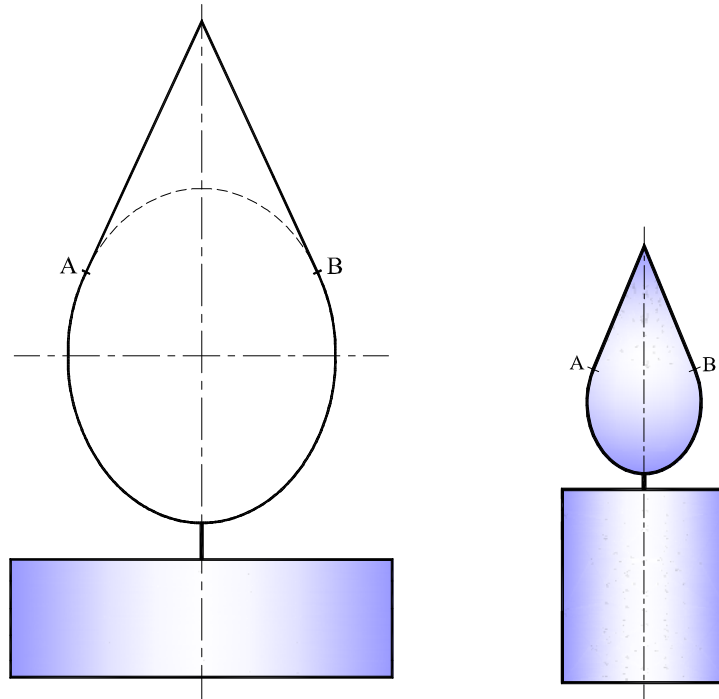
5. The diagram below right shows part of the outline of a drawing.
    Using instruments, complete a full size drawing of the given view.
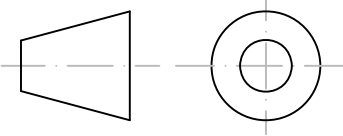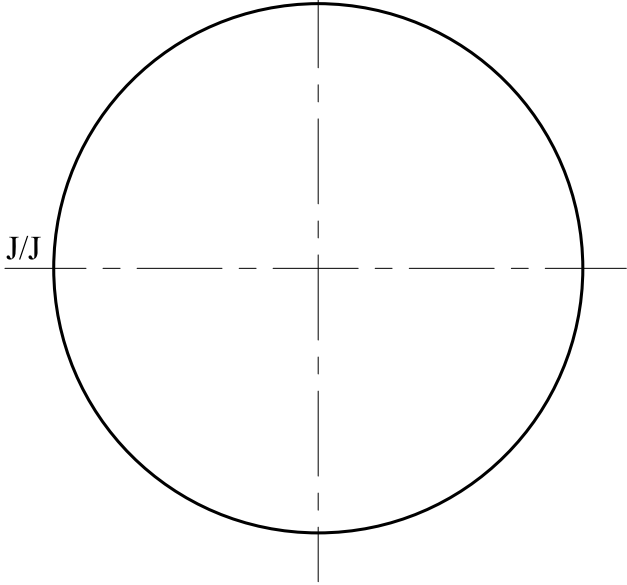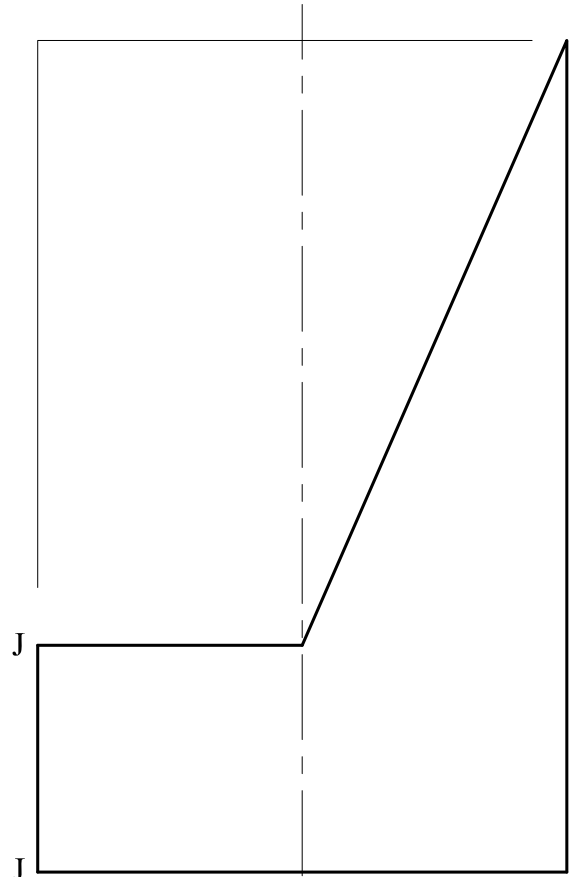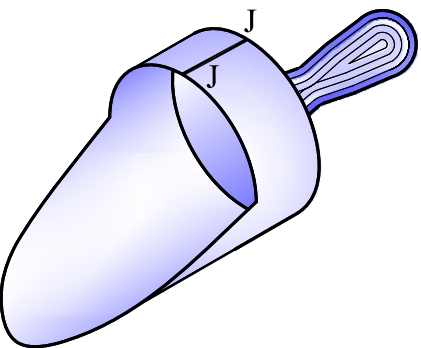   Clearly show constructions for the location of all compass drawn arcs.

    18 marks

R40

R50

R15

R50

R80

R120

55

30

55   10

QUESTION No.1

2 HOLES Ø20

Front Elevation A

Sheet 1 of 4

Class:

J

J

J/J

JL_FORM 3_3rd Year_2009
GRAPHICAL COMMUNICATION (Tech.

Class:

QUESTION No.3

X

X

Scale: 1 : 1

X

X
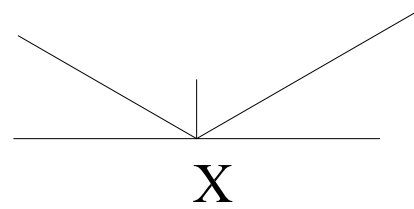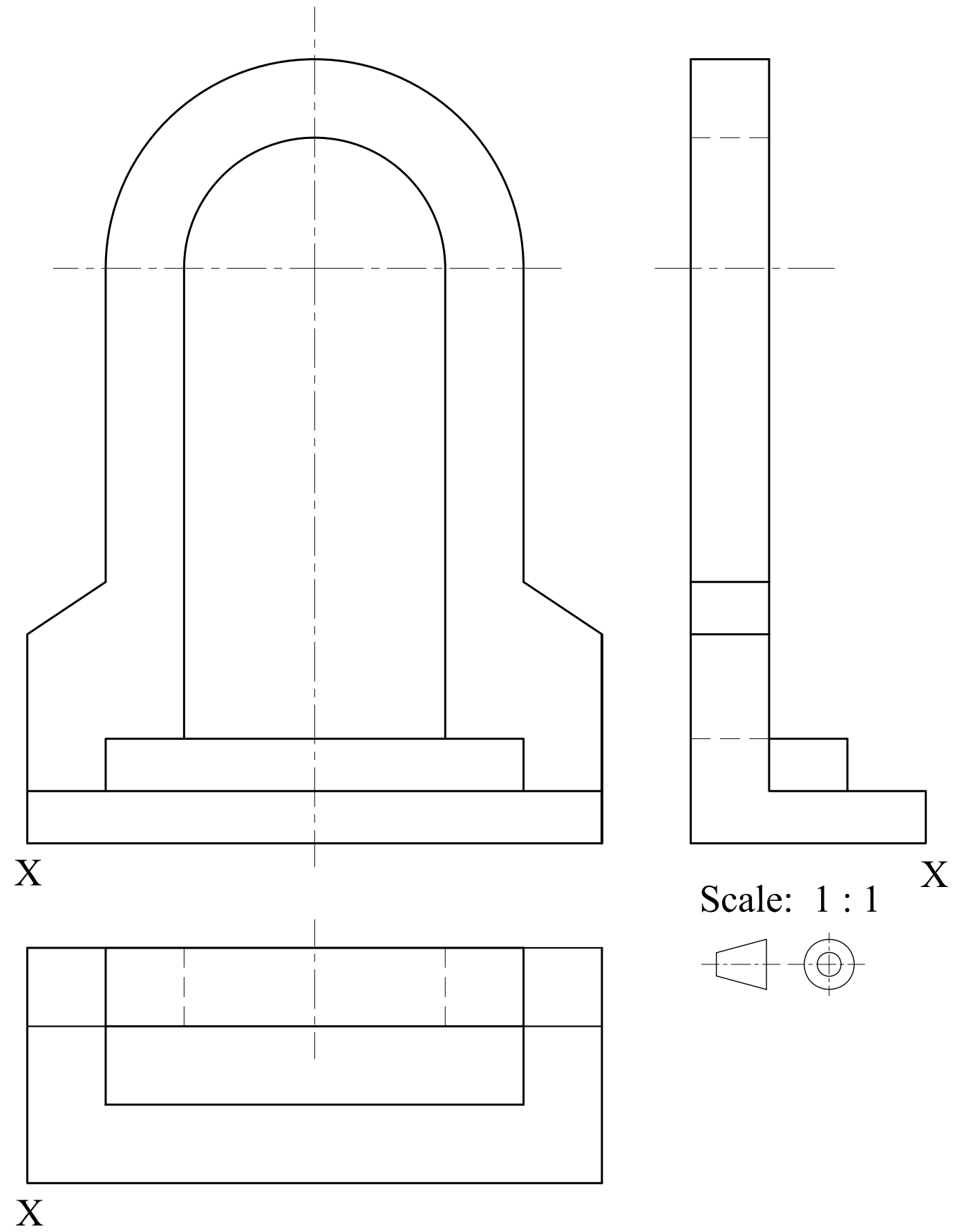
Note: Dimensions of Isometric to be
taken from the given orthographic views

Sheet 3 of 4

JL_ FORM 3_3rd Year_2009
GRAPHICAL COMMUNICATION (Tech.

Class:

QUESTION No.4

QUESTION No.5

R40

R50

R15

55

30

R50

R80

55

10

R120

A

B

Sheet 4 of 4

JL_FORM 3_ 3rd Year_2009
GRAPHICAL COMMUNICATION (Tech.

Class: